

IN THE CLAIMS

Please amend the claims as follows:

Claim 1 (Currently Amended): A portable electronics input device for controlling electronic equipments, comprising:

a body having an interior portion containing electronics that are configured to perform wireless communication, said wireless communication being at least one of mobile telephone communication and television remote controller communication;

bioindex detecting means ~~provided within a region including a holding position of a surface of the body, that a user holds while performing said wireless communication, and for detecting, for a time period during which the user grasps the body, a~~ bioindex of a [[the]] user through a skin of the user, the bioindex includes a pulse wave, the bioindex detecting means includes pulse wave detecting means for detecting the pulse wave of the user, the bioindex detecting means provided at a rear facing portion opposite to a front facing portion of the casing of the body;

bioindex analyzing means for analyzing bioindex which has been detected by the bioindex detecting means; and

selector means for selecting at least one bioindex information from bioindex information which have been detected by the plural bioindex detecting means,

wherein the bioindex analyzing means serves to analyze bioindex information which has been selected by the selector means;

said surface of said body including a first sensor on a first side of said body and a second sensor on a second side of said body, said first sensor and said second sensor positioned to be in contact with a hand of the user when performing wireless communication,

wherein an outer casing rear facing portion of the body includes a detecting portion comprising a finger holding cover having an internal surface shape curved so as to take

substantially the same shape as finger tip shape of the user, and a finger tip insertion portion formed between the finger holding cover and the outer casing rear facing portion, and

the input device is provided at an operation input unit of any one of electronic equipments including personal computer, television image receiver, video and/or audio signal recording and/or reproducing device and air conditioner to control said electronic equipments.

Claim 2 (Currently Amended): The input device according to claim 1, wherein the bioindex is at least one of sweating, heartbeat, ~~pulse-wave~~, Galvanic Skin Reflex, Galvanic Skin Response, MV (Micro Vibration), myoelectric potential and SPO2 (blood oxygen saturation level), and combination of these bioindices.

Claim 3 (Currently Amended): The input device according to claim 1, wherein the bioindex detecting means includes [[is]] detecting means for detecting Galvanic Skin Reflex or Galvanic Skin Response between predetermined two points of palm of one hand of the user.

Claim 4 (Canceled).

Claim 5 (Currently Amended): The input device according to claim 1, wherein the bioindex detecting means includes [[is]] temperature detecting means for detecting body temperature of the user.

Claim 6 (Currently Amended): The input device according to claim 5, wherein the temperature detecting means includes [[is]] composed of finger tip temperature detecting

means for detecting finger tip temperature provided at a position with which finger tip comes into contact when the finger tip temperature detecting means is grasped by finger of the user, and palm temperature detecting means provided at a position with which palm of the user comes into contact and for detecting palm temperature.

Claim 7 (Canceled).

Claim 8 (Previously Presented): The input device according to claim 1, wherein the selector means serves to compare signal-to-noise ratios of output values which have been detected by the plural bioindex detecting means to select an output value having value of higher signal-to-noise ratio.

Claim 9 (Previously Presented): The input device according to claim 1, wherein the selector means serves to compare detection levels of output values which have been detected by the plural bioindex detecting means to select an output value having higher detection level.

Claim 10 (Previously Presented): The input device according to claim 1, wherein the selector means serves to compare auto-correlation functions of output values which have been detected by the plural bioindex detecting means to select an output value in which correlation has been taken to more degree.

Claim 11 (Previously Presented): The input device according to claim 1, wherein the selector means serves to select one output from outputs from the bioindex detecting means.

Claim 12 (Previously Presented): The input device according to claim 1, wherein the selector means serves to select, as an output value, a value which has been detected substantially as the same value at the plural bioindex detecting means.

Claim 13 (Previously Presented): The input device according to claim 1, wherein the selector means serves to select, as an output value, an average value obtained by averaging values detected at the respective bioindex detecting means.

Claim 14 (Previously Presented): The input device according to claim 1, wherein the respective plural bioindex detecting means are similar bioindex detecting means for detecting the same bioindex.

Claim 15 (Previously Presented): The input device according to claim 1, wherein the respective plural bioindex detecting means are different kinds of bioindex detecting means for detecting the same bioindex by different techniques.

Claim 16 (Previously Presented): The input device according to claim 1, wherein the respective plural bioindex detecting means are different kinds of bioindex detecting means for detecting different bioindices.

Claims 17-18 (Canceled).

Claim 19 (Currently Amended): The input device according to claim 1, wherein a control ~~the steering~~ unit is hand-held during control ~~or steering~~ at any one of machines to be controlled including automotive vehicle, train, airplane, ship and industrial machinery.

Claim 20 (Currently Amended): An input method for a portable electronics input device for controlling electronic equipments, the method comprising:

contacting a body of a portable electronics device with a hand of a user, said body having an interior portion containing electronics that are configured to perform wireless communication, said wireless communication being at least one of mobile telephone communication and remote controller communication;

a bioindex detection step of detecting, by bioindex detecting means provided within a region including a holding position of a surface of a body[[,]] that a user holds while performing said wireless communication, a bioindex of the user through a skin of the user for a time period during which the user holds the body to be operated, the bioindex includes a pulse wave, the bioindex detecting means includes pulse wave detecting means for detecting the pulse wave of the user, the bioindex detecting means provided at a rear facing portion opposite to a front facing portion of the casing of the body;

a bioindex analysis step of analyzing with a processor bioindex which has been detected at the bioindex detection step;

a selecting step of selecting at least one bioindex information from bioindex information which have been detected by the plural bioindex detecting means,

wherein the bioindex analyzing means serves to analyze bioindex information which has been selected by the selector means; and

providing the input device at an operation input unit of any one of electronic equipments including personal computer, television image receiver, video and/or audio signal recording and/or reproducing device and air conditioner to control said electronic equipments, wherein

said surface of said body including a first sensor on a first side of said body and a second sensor on a second side of said body, said first sensor and said second sensor positioned to be in contact with a hand of the user when performing wireless communication,

an outer casing rear facing portion of said body includes a detecting portion comprising a finger holding cover having an internal surface shape curved so as to take substantially the same shape as finger tip shape of the user, and a finger tip insertion portion formed between the finger holding cover and the outer casing rear facing, the finger holding cover and the finger tip insertion portion detecting the pulse wave of the user.

Claim 21 (Currently Amended): The input method according to claim 20, wherein the bioindex is at least one of sweating, heartbeat, ~~pulse wave~~, skin temperature, Galvanic Skin Reflex, Galvanic Skin Response, MV (Micro Vibration), myoelectric potential and SPO2 (blood oxygen saturation level), or combination of these bioindices.

Claim 22 (Original): The input method according to claim 20, wherein the bioindex detection step consists of plural bioindex detection steps,

the input method including:

a selection step of selecting at least one bioindex information from bioindex information which have been detected at the plural bioindex detection steps; and

a bioindex analysis step of analyzing bioindex information which has been selected at the selection step.

Claim 23 (Original): The input method according to claim 22, wherein the respective plural bioindex detection steps detect the same bioindex.

Claim 24 (Original): The input method according to claim 22, wherein the respective plural bioindex detection steps detect the same bioindex by different techniques.

Claim 25 (Original): The input method according to claim 22, wherein the respective plural bioindex detection steps detect different bioindices.

Claim 26 (Currently Amended): A portable electronic equipment including an input unit for controlling electronic equipments, comprising:

a body having an interior portion containing electronics that are configured to perform wireless communication, said wireless communication being at least one of mobile telephone communication and remote controller communication;

bioindex detecting means provided within a region including a holding position of a surface of the body, with which a finger of a user comes into contact when the user is grasping the body while performing said wireless communication, and for detecting a bioindex of the user through a skin of the user for a time period during which the user grasps the body, the bioindex includes a pulse wave, the bioindex detecting means includes pulse wave detecting means for detecting the pulse wave of the user, the bioindex detecting means provided at a rear facing portion opposite to a front facing portion of the casing of the body;

bioindex analyzing means for analyzing bioindex which has been detected by the bioindex detecting means; and

selector means for selecting at least one bioindex information from bioindex information which have been detected by the plural bioindex detecting means,

wherein the bioindex analyzing means serves to analyze bioindex information which has been selected by the selector means;

said surface of said body including a first sensor on a first side of said body and a second sensor on a second side of said body, said first sensor and said second sensor positioned to be in contact with a hand of the user when performing wireless communication,

wherein the input unit of the portable electronic equipment is provided at an operation input unit of any one of electronic equipments including personal computer, television image receiver, video and/or audio signal recording and/or reproducing device and air conditioner to control said electronic equipments, and

a detection portion comprising a finger holding cover having an internal surface shape curved so as to take substantially the same shape as finger tip shape of the user, and a finger tip insertion portion formed between the finger holding cover and the rear facing of the casing is provided at the rear facing portion side of the casing of the body.

Claim 27 (Currently Amended): The electronic equipment according to claim 26, wherein the bioindex is at least one of sweating, heartbeat, ~~pulse-wave~~, skin temperature, Galvanic Skin Reflex, Galvanic Skin Response, MV (Micro Vibration), myoelectric potential and SPO2 (blood oxygen saturation level), and combination of these bioindices.

Claim 28 (Currently Amended): The electronic equipment according to claim 26, wherein the bioindex detecting means includes [[is]] detecting means for detecting Galvanic Skin Reflex or Galvanic Skin Response between predetermined two points of palm of one hand of the user.

Claim 29 (Original): The electronic equipment according to claim 28, wherein display means for displaying guide display for operation and information is provided at the front face portion of a casing,

the detecting means being provided at the side surface portion of the casing.

Claim 30 (Currently Amended): The electronic equipment according to claim 28, comprising:

operation means for an operation input, wherein the detecting means is provided at a position with which finger of the user comes into contact of the surface of the operation means.

Claim 31 (Original): The electronic equipment according to claim 28, wherein the detecting means is provided at the corner portion of the casing.

Claim 32 (Canceled).

Claim 33 (Currently Amended): The electronic equipment according to claim 28 ~~[[32]]~~, wherein display means for displaying guide display for operation and information is provided at the front facing ~~[[face]]~~ portion of the casing, ~~and the pulse wave detecting means is provided at the rear face portion opposite to the front face portion of the casing.~~

Claim 34 (Currently Amended): The electronic equipment according to claim 33, wherein ~~a detection portion comprising a finger holding cover having internal surface shape curved so as to take substantially the same shape as finger tip shape of the user, and a finger chip insertion portion formed between the finger holding cover and the rear face of the casing is provided at the rear face portion side of the casing,~~ light emitting means are being provided at the inner surface of the finger holding cover, light receiving means as the pulse wave

detecting means being provided at the rear facing ~~[[face]]~~ of the casing opposite to the light emitting means.

Claim 35 (Currently Amended): The electronic equipment according to claim 26, wherein the bioindex detecting means includes ~~[[is]]~~ temperature detecting means for detecting body temperature of the user.

Claim 36 (Currently Amended): The electronic equipment according to claim 35, wherein the temperature detecting means is composed of finger tip temperature detecting means provided at a position with which finger comes into contact when the temperature detecting means is grasped by the finger of the user and for detecting finger tip ~~[[chip]]~~ temperature, and palm temperature detecting means provided at a position with which palm of the user comes into contact and for detecting palm temperature.

Claim 37 (Original): The electronic equipment according to claim 36, comprising:
display means serving to display guide display for operation and information at an outer casing front face portion,

wherein one of the temperature detecting means is provided at the side surface portion with respect to the outer casing front face portion.

Claim 38 (Original): The electronic equipment according to claim 36, comprising:
operation means, wherein the finger tip temperature detecting means is provided at a position with which finger of user comes into contact of the surface of the operation means.

Claim 39 (Original): The electronic equipment according to claim 36, wherein the palm temperature detecting means is provided at the corner portion of the outer peripheral surface side of the casing.

Claim 40 (Currently Amended): The electronic equipment according to claim 36, wherein ~~a detecting portion comprising a finger holding cover having an internal surface shape curved so as to take substantially the same shape as finger tip shape of the user, and a finger tip insertion portion formed between the finger holding cover and the rear face of the casing is provided at the rear face portion side of the casing,~~ the finger tip temperature detecting means is ~~being~~ provided at the rear facing ~~[[face]]~~ portion of the casing.

Claim 41 (Canceled).